

FIG. 1

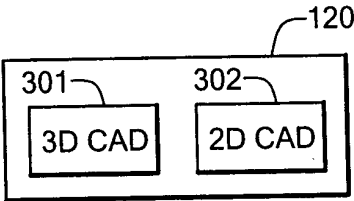


FIG. 3A

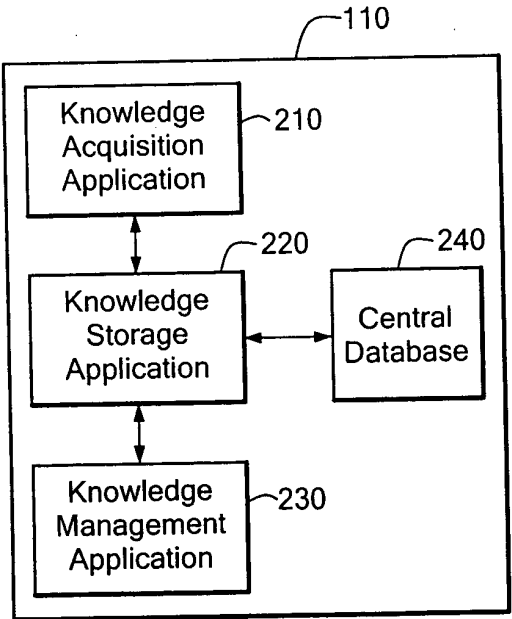


FIG. 2

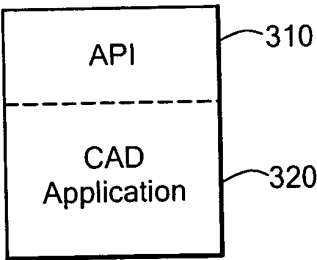


FIG. 3B

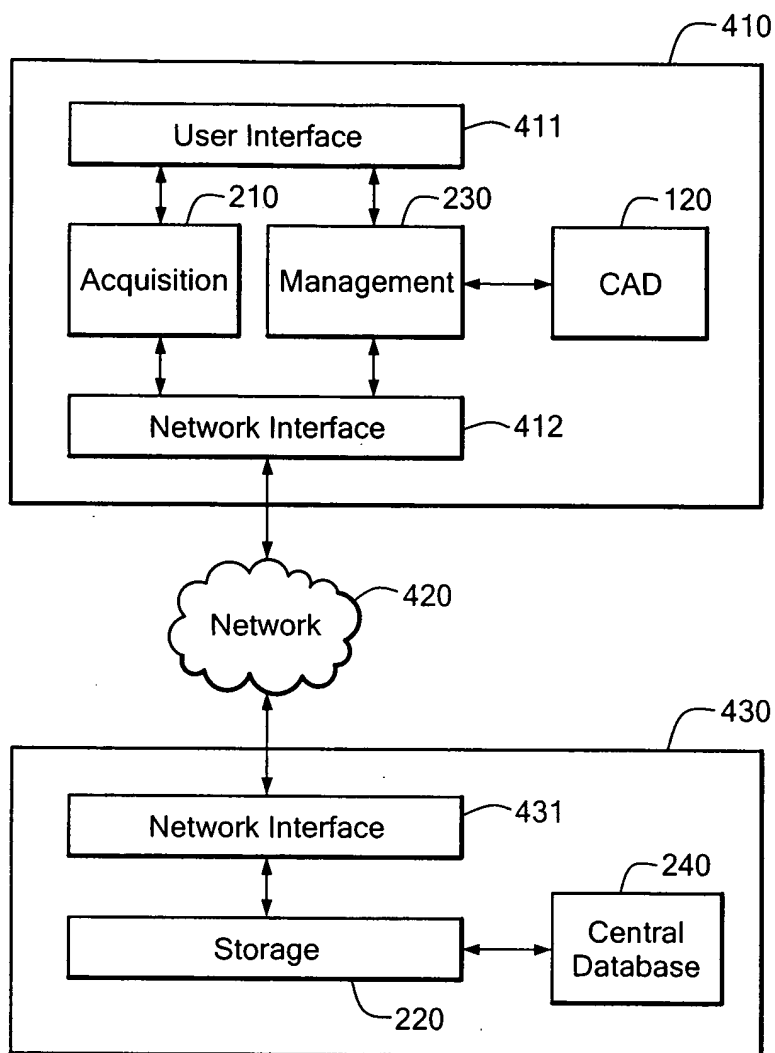


FIG. 4

RuleStream nAct Expert
File Edit View Help

Part Family - Tree

- BuildingServicesFan
 - FanAssembly
 - Rotor
 - HousingAssembly
 - Housing
 - MotorAssembly
 - Motor
 - MountingAssembly
 - Mounting

510

Display Name *
Mounting Assembly

System Name *
MountingAssembly

Subpart Type *
Static

Category *
General

Valid Part Families *
Mounting

531

Context
BuildingServicesFan

Optimal Part Family *

☐ User Edit ☐ Follow Part Number

result = "Mounting"

532

Quantity

Exists When *

Part Names *

When Changed *

Documentation

* Required

520

All Specs (Alphabetical)

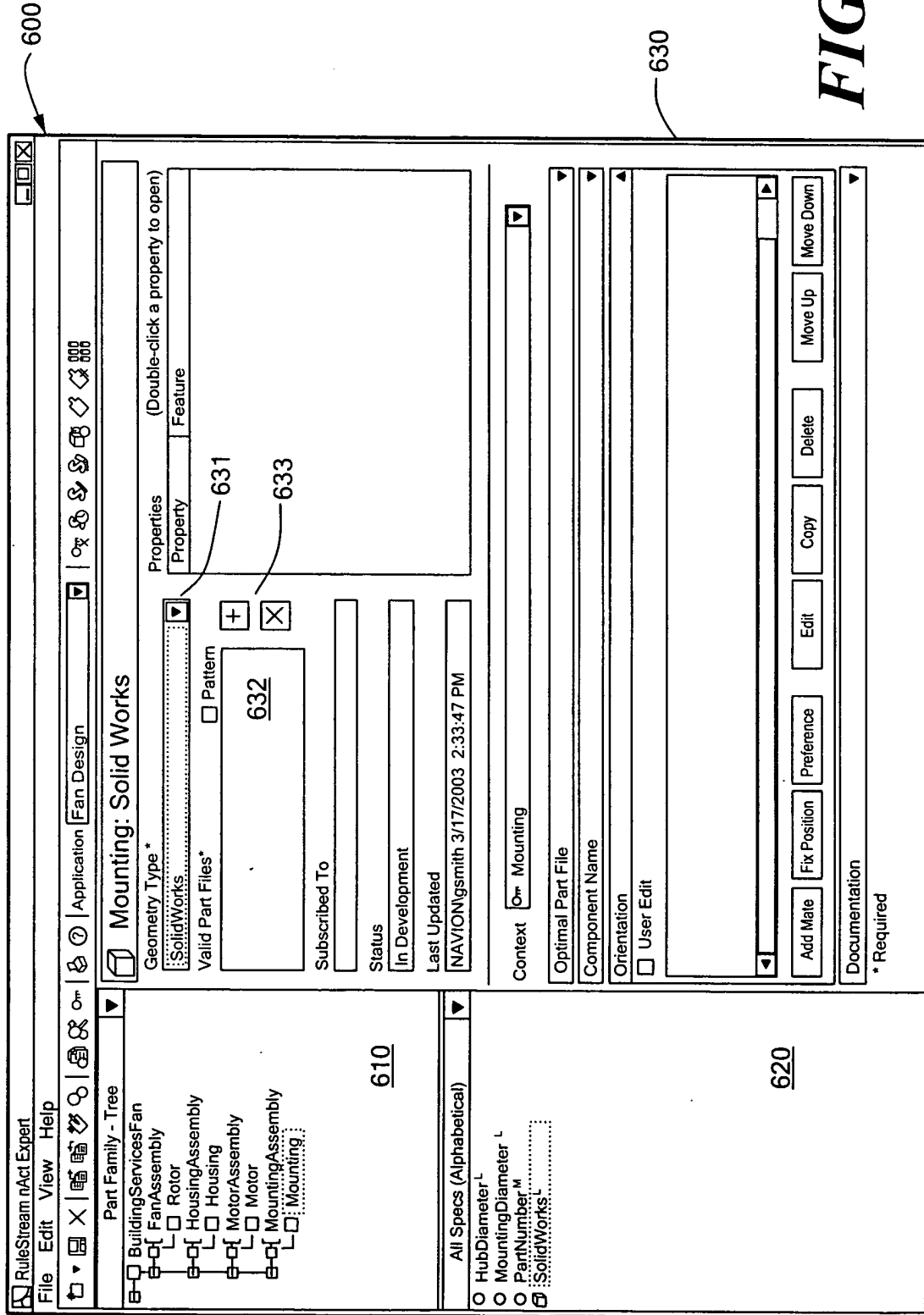
- Density^L
- FanArea^L
- FanAssembly^L
- FanDiameter^L
- FanPressure^L
- FrequentStartStop^L
- HousingAssembly^L
- MotorAssembly^L
- MountingAssembly^L
- PartNumber^M
- SolidWorks^L
- SpecifiedSpeed^L
- SquareFlange^L
- VolumeFlowRate^L

500

540

530

FIG. 5



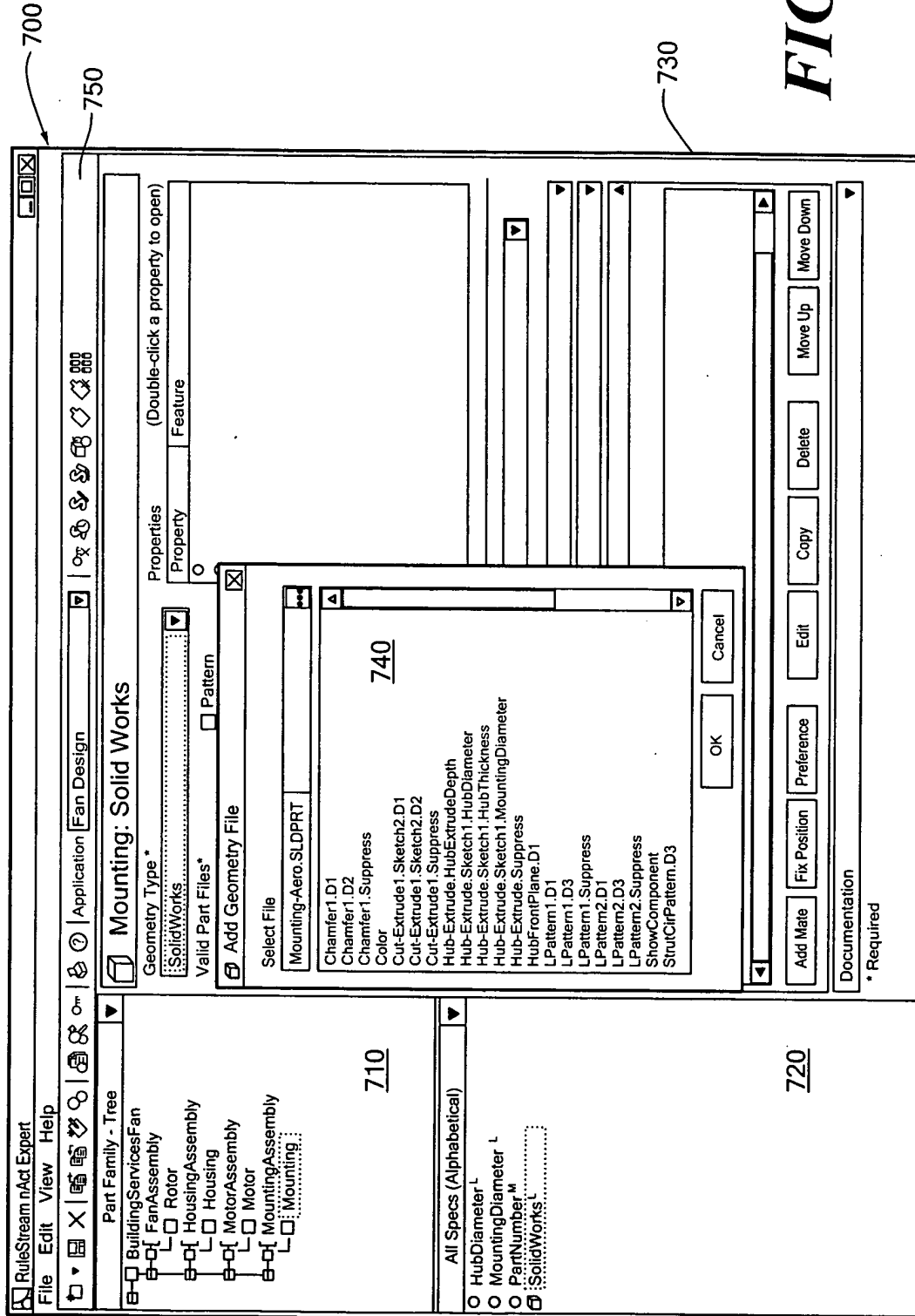


FIG. 7

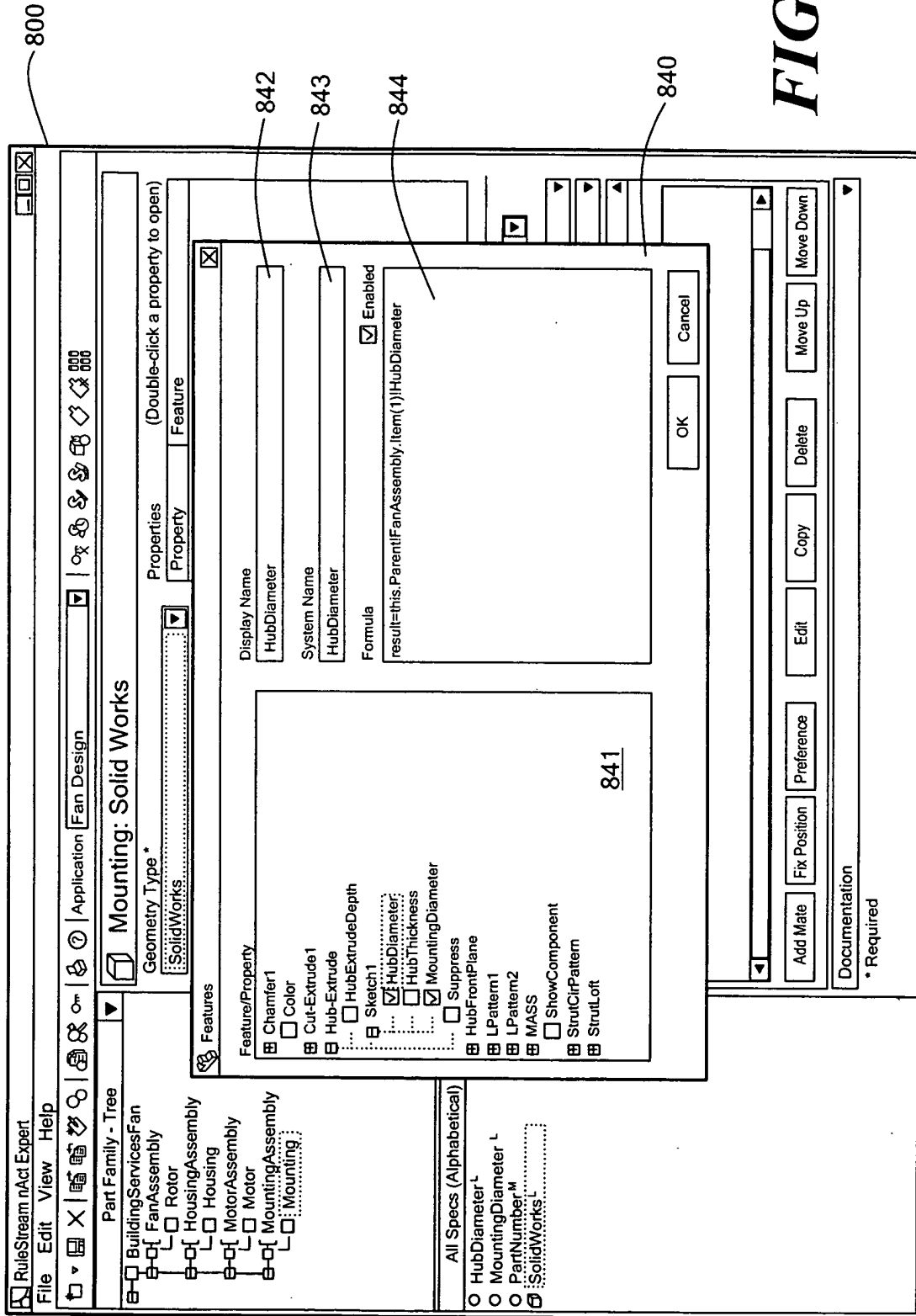


FIG. 8

RuleStream nAct Expert

File Edit View Help

Part Family - Tree

BuildingServicesFan

FanAssembly

Rotor

HousingAssembly

Housing

MotorAssembly

Motor

MountingAssembly

Mounting

Mounting: Solid Works

Geometry Type*
SolidWorks

Valid Part Files*
Mounting-Aero.SLDPRT

Properties (Double-click a property to open)
Property Feature
HubDiameter Hub-Extrude.Sketch1.HubDiameter
MountingDiameter Hub-Extrude.Sketch1.MountingDiameter

Subscribed To

Status

In Development

Last Updated
NAVIONgsmith 3/17/2003 2:33:47 PM

Context
Mounting

Optimal Part File

Component Name

Orientation
☐ User Edit

Add Mate

Fix Position

Preference

Edit

Copy

Delete

Move Up

Move Down

Documentation

* Required

900

950

931

930

910

920

FIG. 9

RuleStream nAct Expert

File Edit View Help

Part Family - Tree

- BuildingServicesFan
- FanAssembly
 - Rotor
 - HousingAssembly
 - Housing
 - MotorAssembly
 - Motor
 - MountingAssembly
 - Mounting

1010

1020

Application Fan Design

Mounting: Solid Works

Geometry Type *

Valid Part Files *

Mounting-Aero.SLDPRT

Geometry Mating

Part 1

Feature Type

Feature Name

Part 2

Feature Type

Feature Name

Mate Type

Distance

Angle

Alignment

Flip

OK

Cancel

1040

1000

1030

1000

FIG. 10

RuleStream nAct Expert
File Edit View Help

Part Family - Tree
BuildingServicesFan
FanAssembly
Rotor
HousingAssembly
Housing
MotorAssembly
Motor
MountingAssembly
Mounting

Application Fan Design

Mounting: Solid Works

Geometry Type *
SolidWorks
Valid Part Files *
Mounting-Aero.SLDPRT

Properties (Double-click a property to open)
Property Feature
HubDiameter Hub-Extrude.Sketch1.HubDiameter
MountingDiameter Hub-Extrude.Sketch1.MountingDiameter

Subscribed To
Status
In Development
Last Updated
NAVIONgsmith 3/17/2003 2:33:47 PM

Context On Mounting

Optimal Part File

Component Name

Orientation

User Edit

Add Mate Fix Position Preference Edit Copy Delete Move Up Move Down

Documentation
* Required

1100

1131

1130

1110

1120

FIG. 11

RulesStream nAct Expert

File Edit View Help

Part Family - Tree

- BuildingServicesFan
 - FanAssembly
 - Rotor
 - HousingAssembly
 - Housing
 - MotorAssembly
 - Motor
 - MountingAssembly
 - Mounting

Application Fan Design

BuildingServicesFan: FanArea

Display Name *
Fan Area

System Name *
FanArea

Property Type *
Formula Driven

Data Type *
Double

Units
m^2(metres^2)

Category *
Requirements

Subscribed to

Description

Knowledge Source

Status
Released

Last Updated
GROGANlbrogan 8/22/2002 10:53:22 AM

Context ☒ BuildingServicesFan

Formula

☐ Auto Revert ☐ Follow Part Number

If this!FanDiameter > 0 Then
result = 3.141 * (this!FanDiameter / 2)^2
Else
result = 0
Else

User Interface

Valid Values

When Changed

Database Constraint

Documentation

* Required

FIG. 12

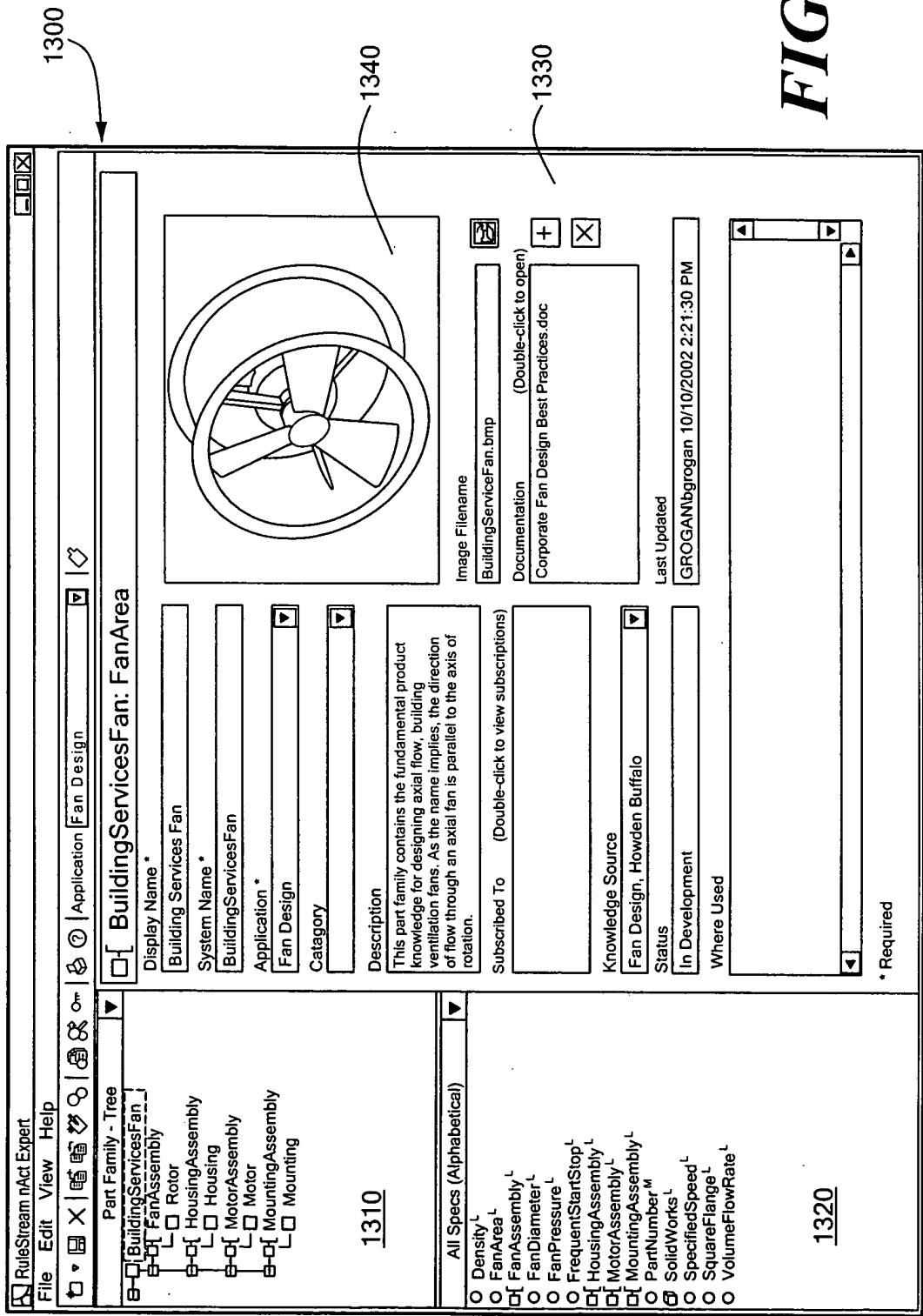
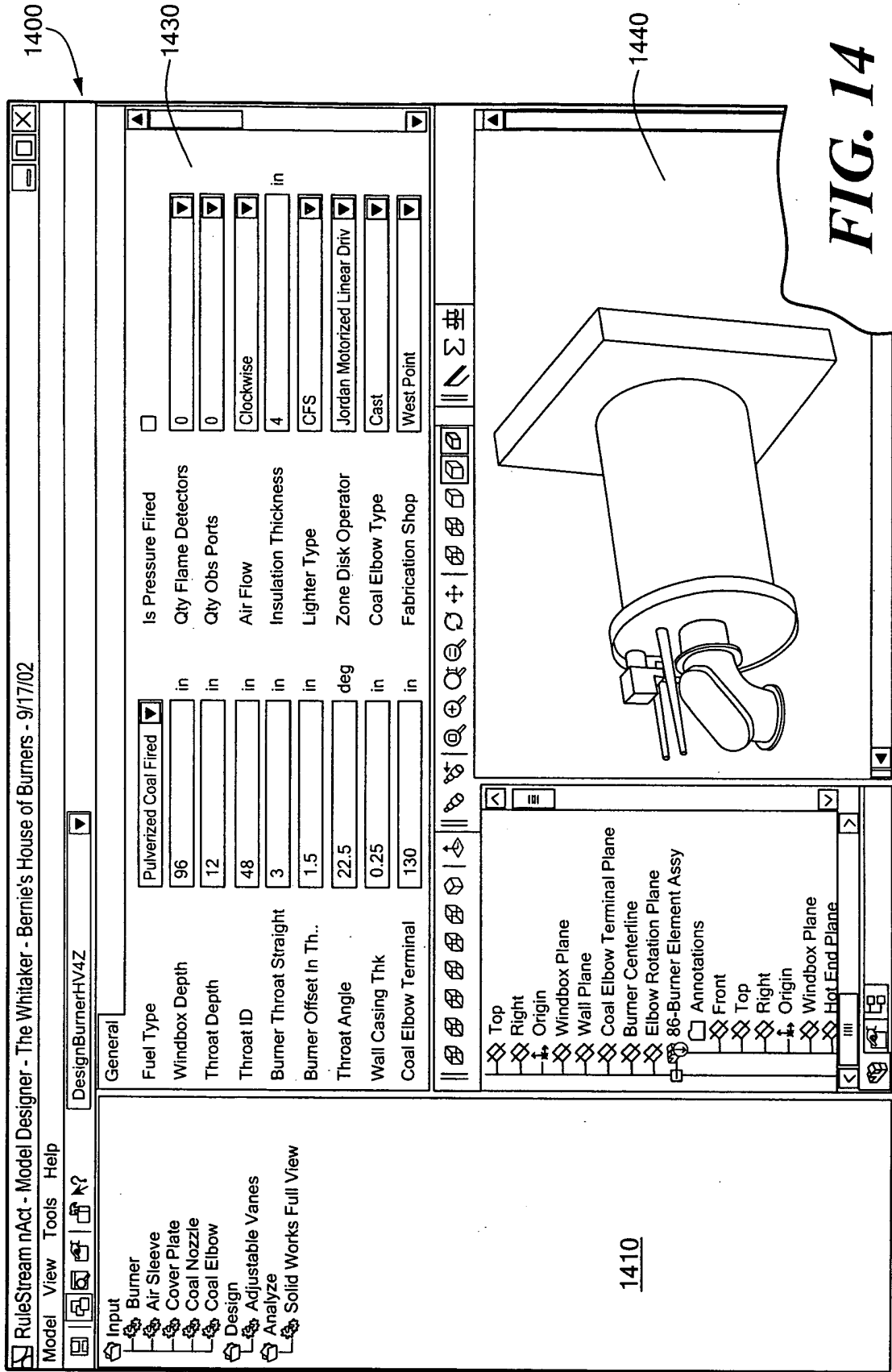
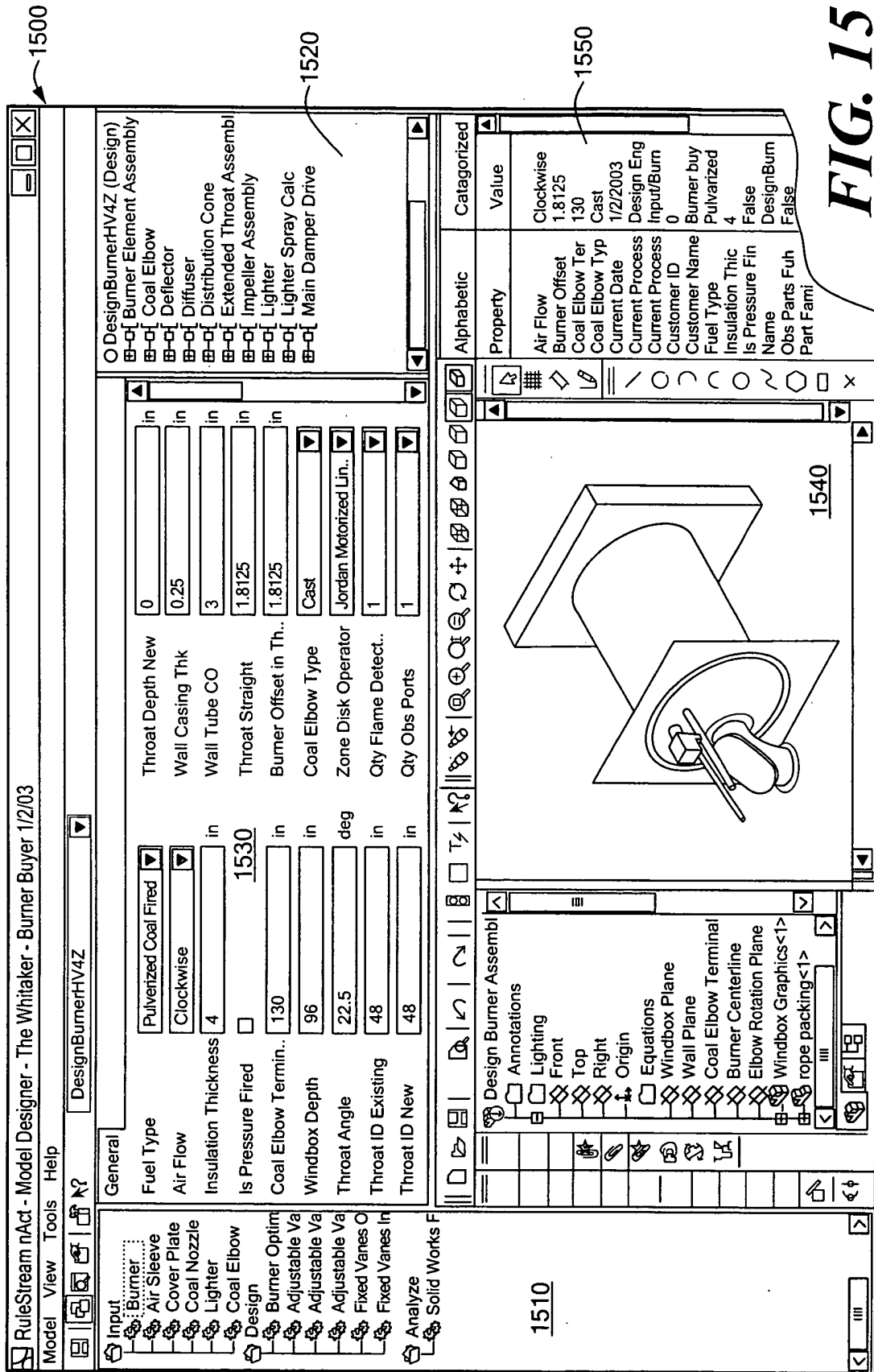
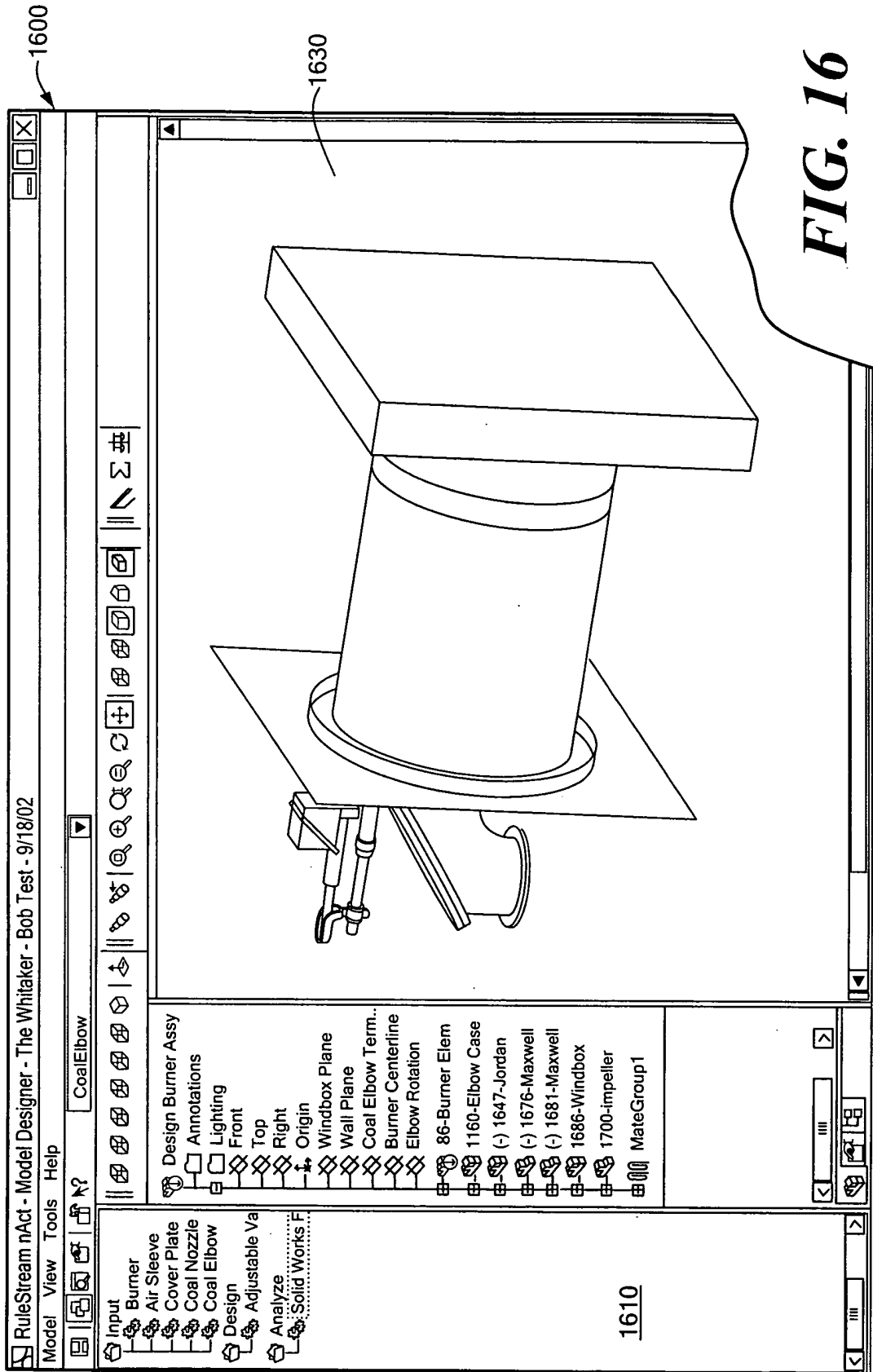


FIG. 13







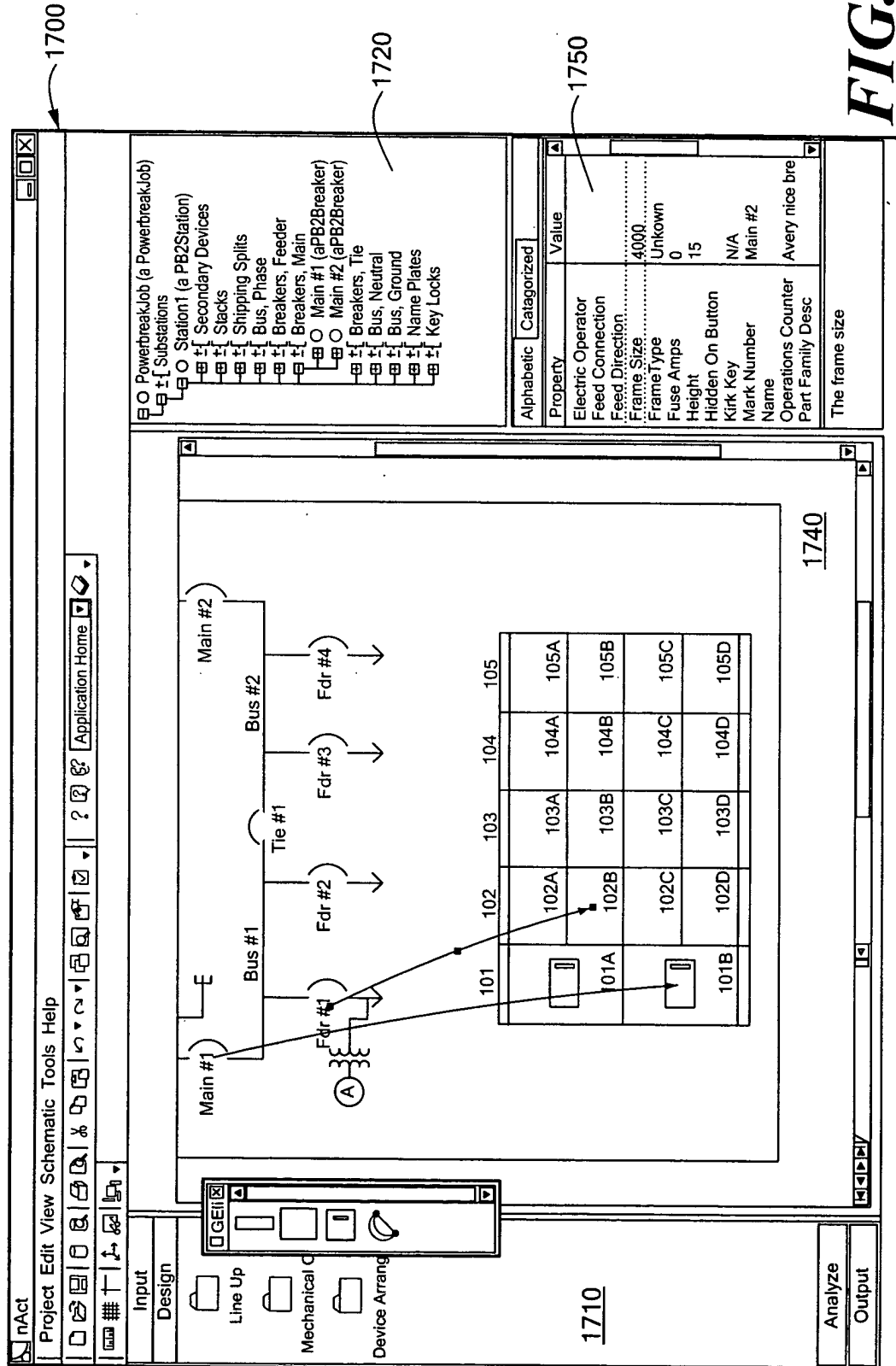
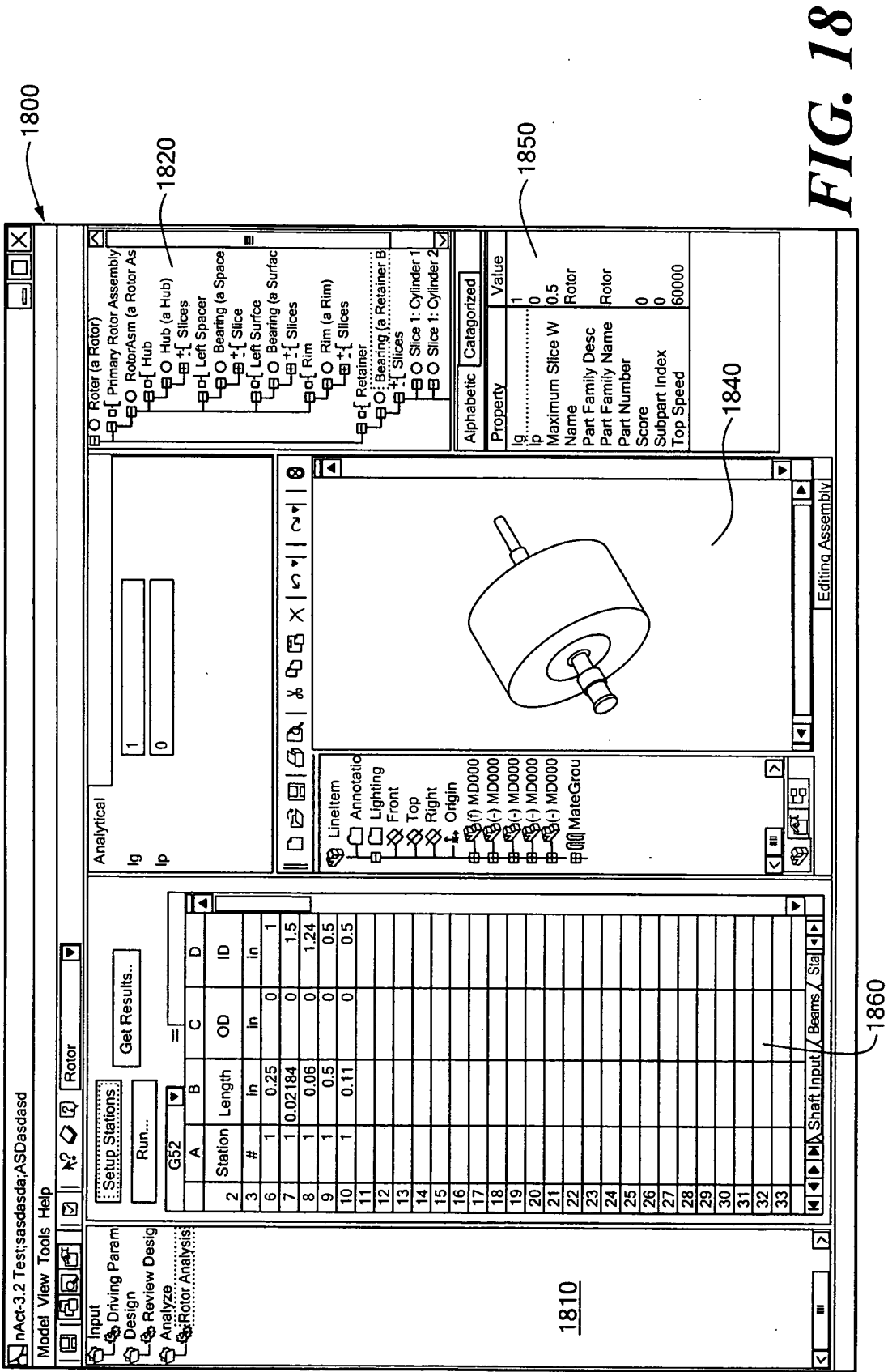


FIG. 17



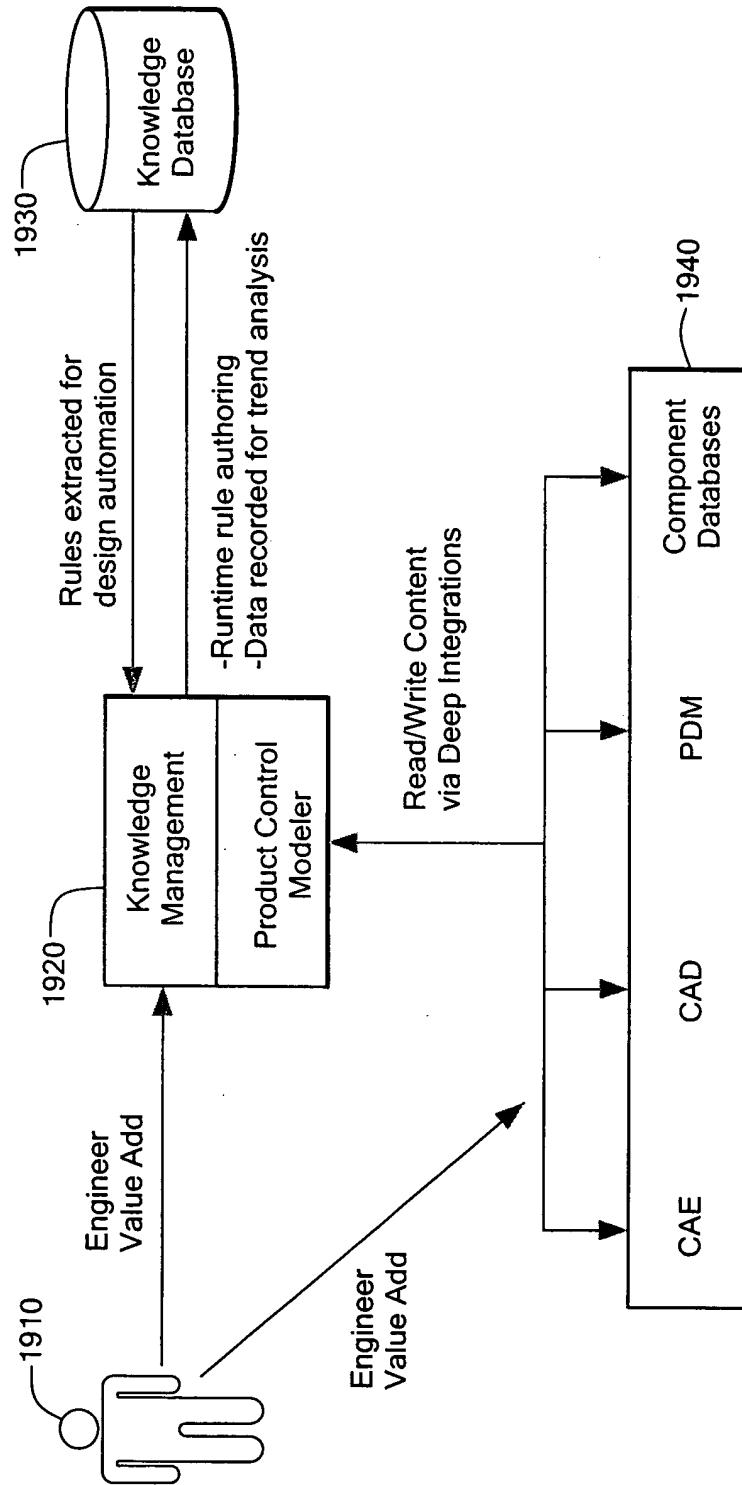


FIG. 19

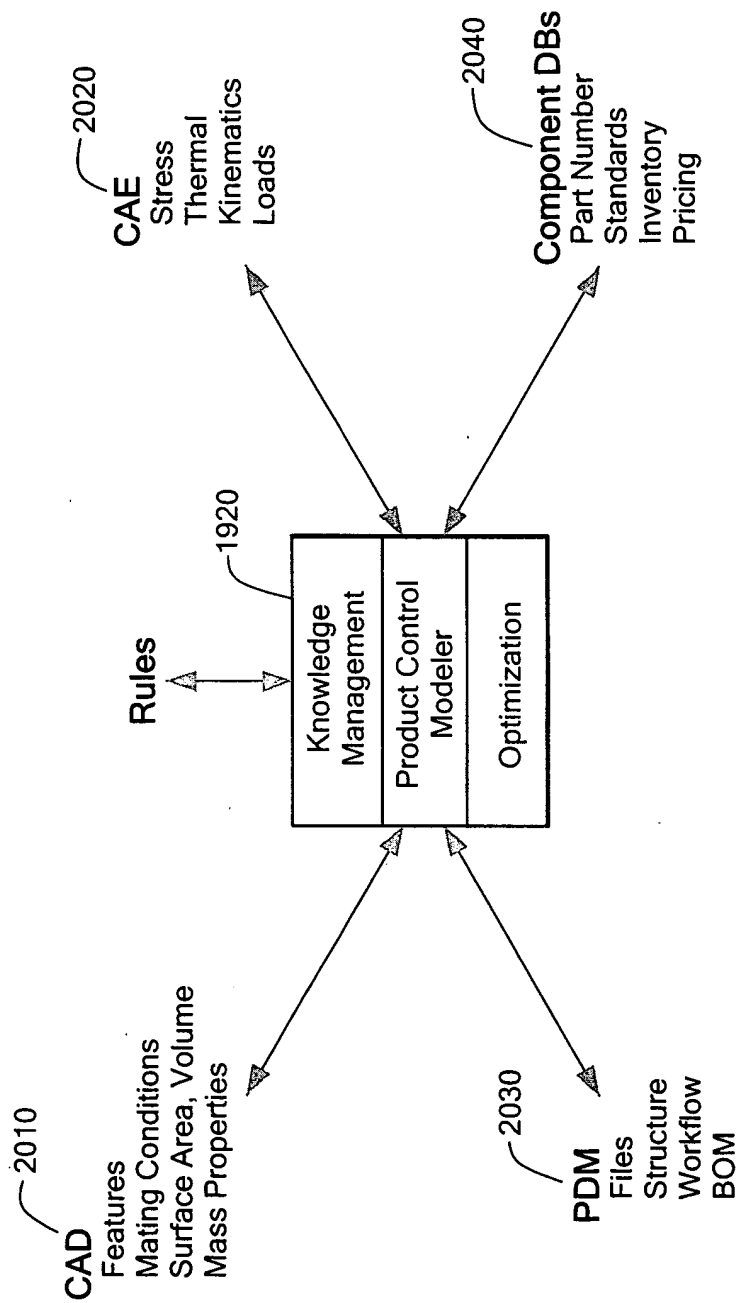


FIG. 20

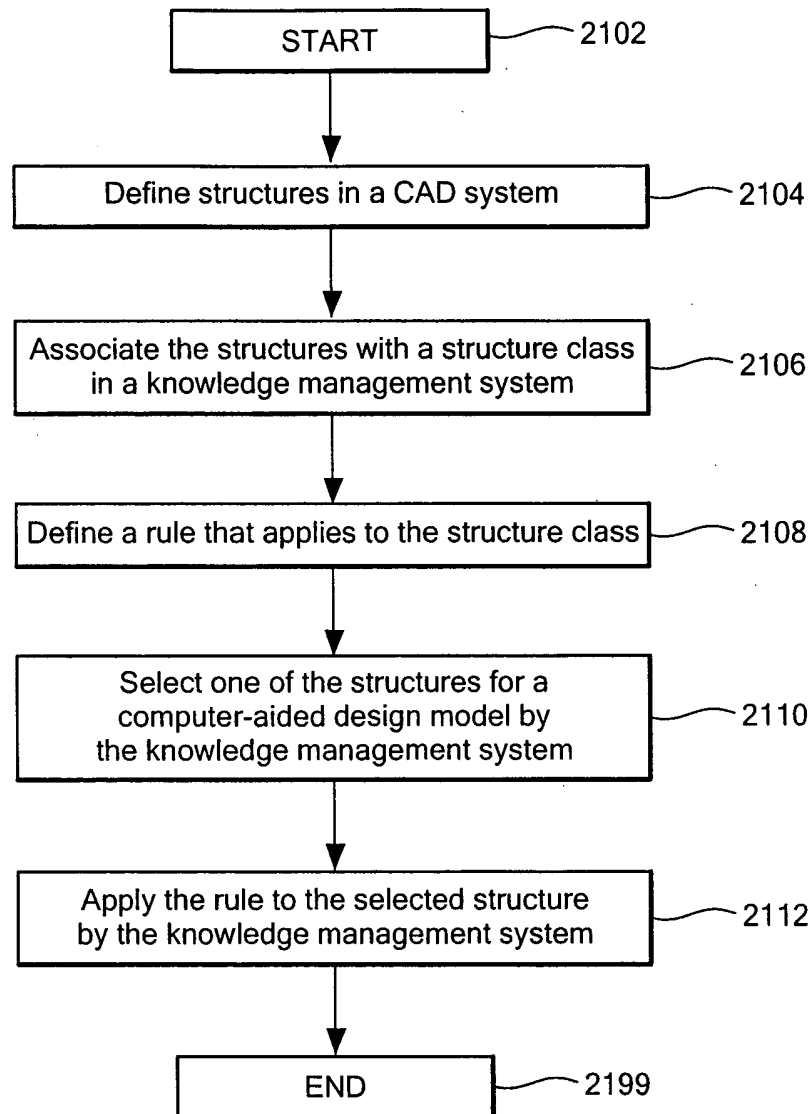
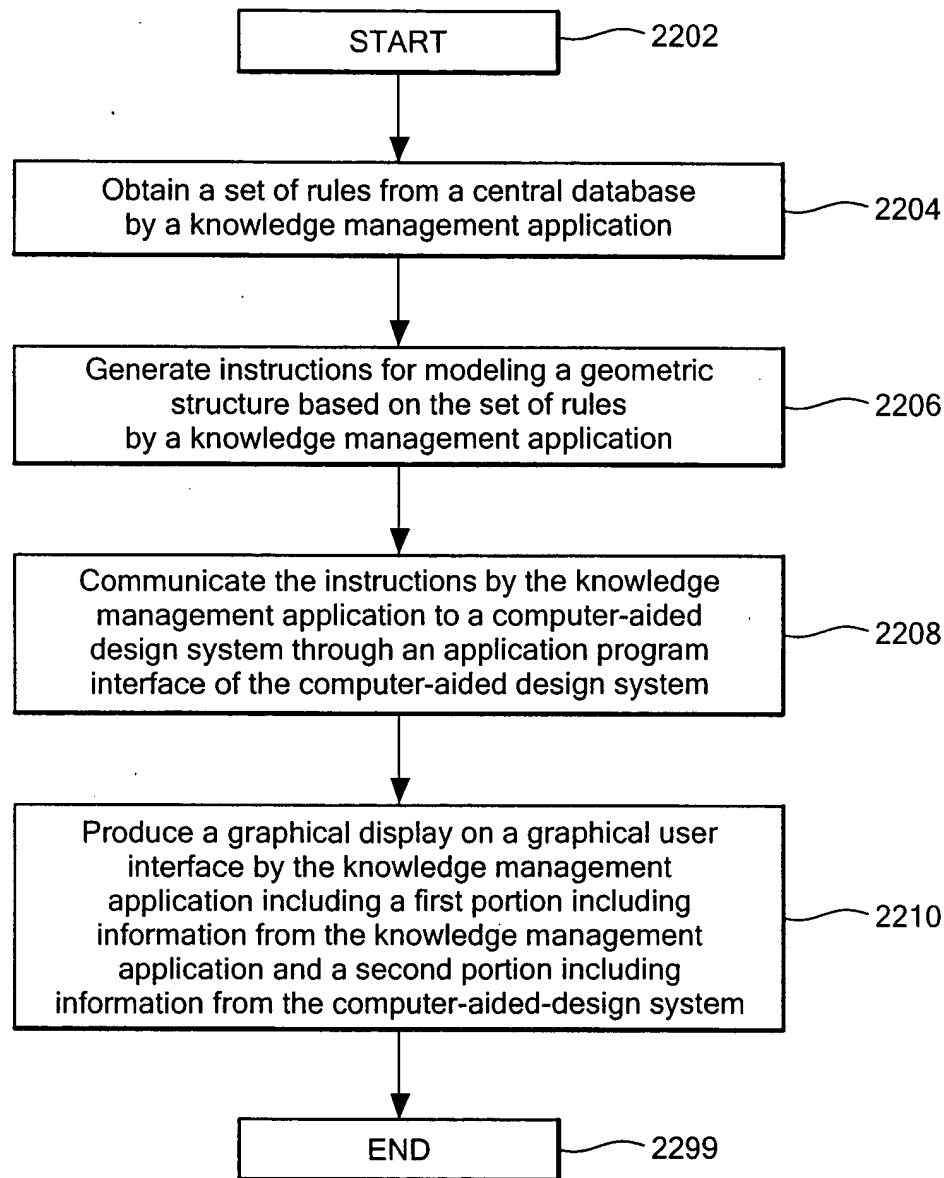


FIG. 21



2200

FIG. 22

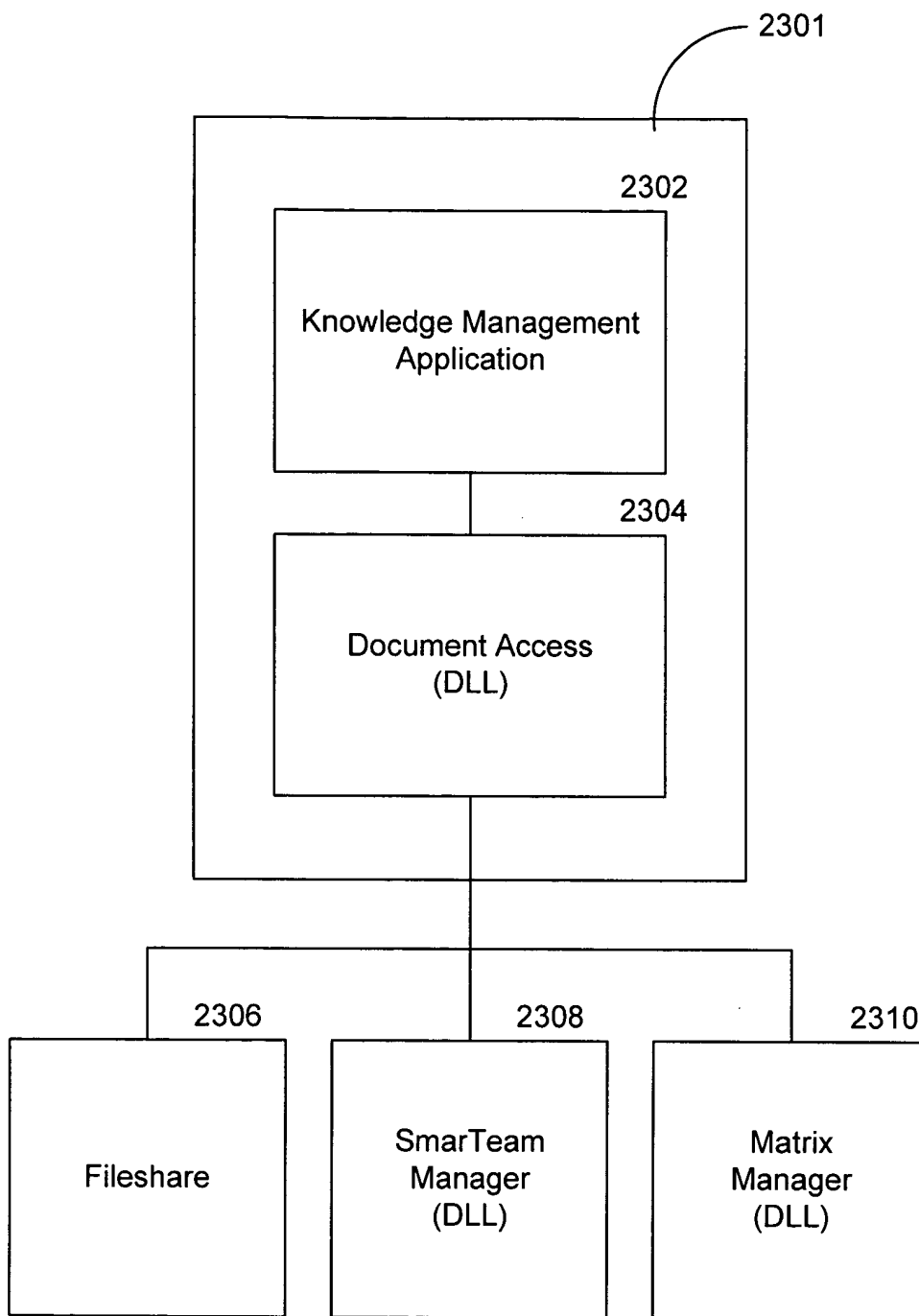


FIG. 23

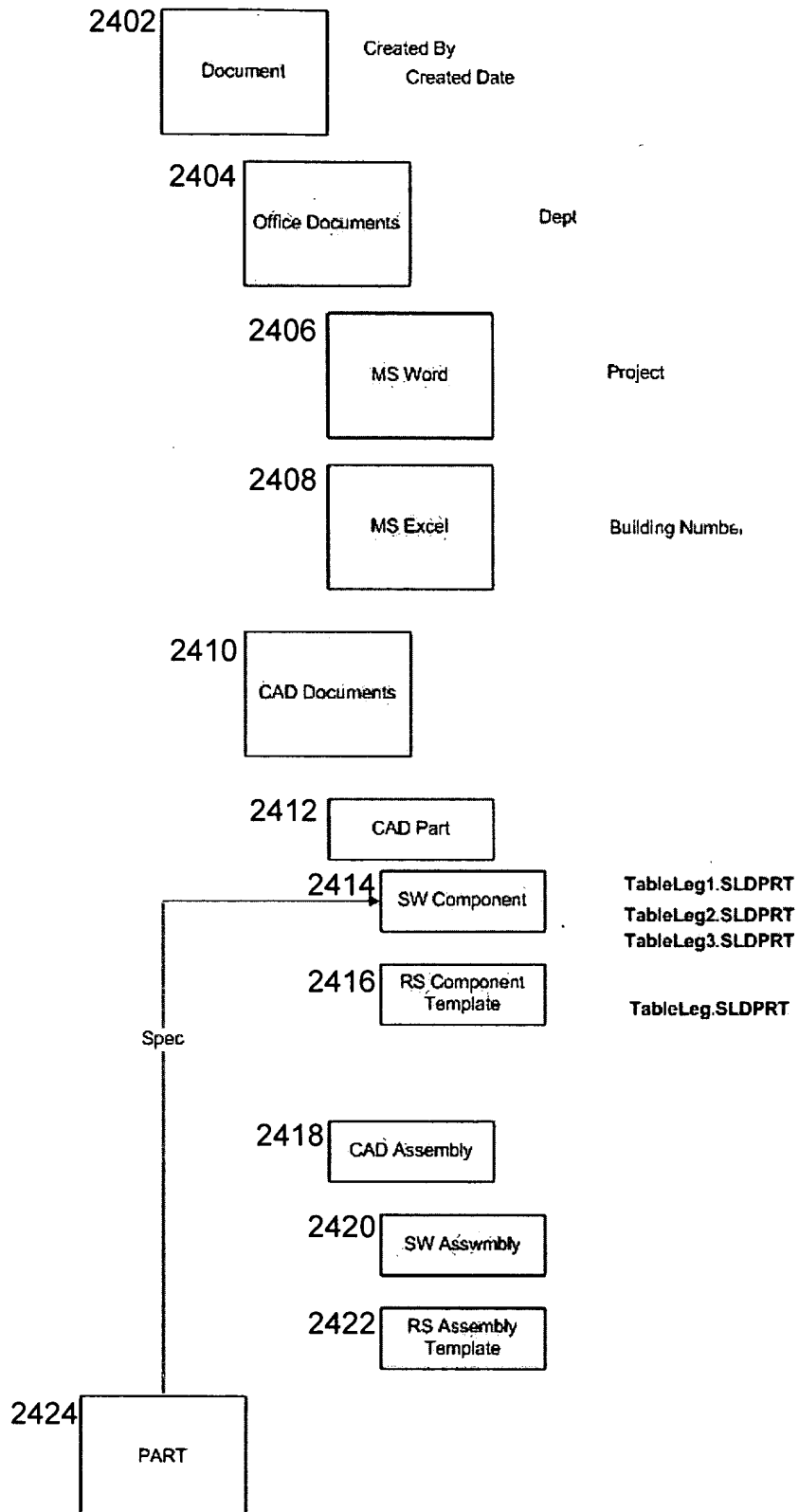


FIG. 24

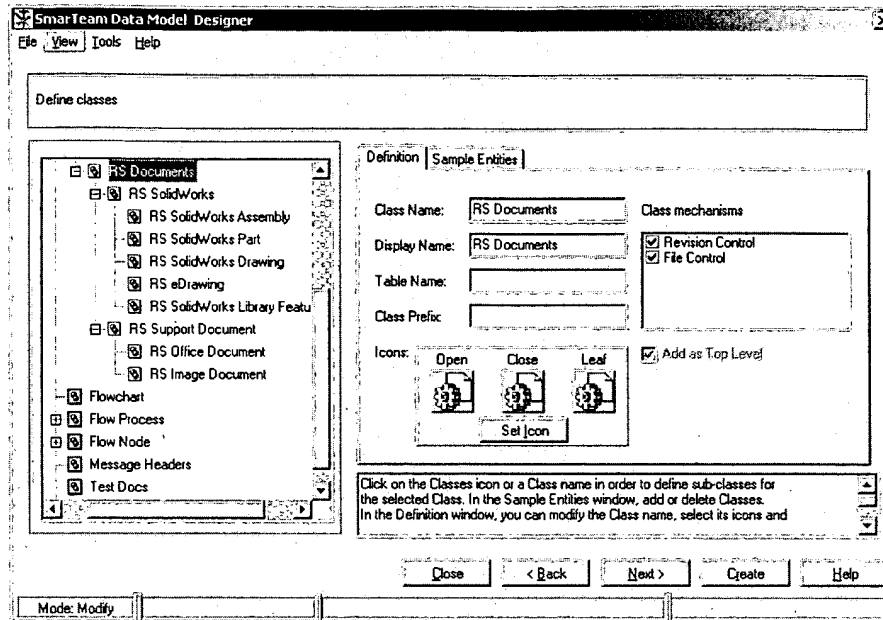


FIG. 25

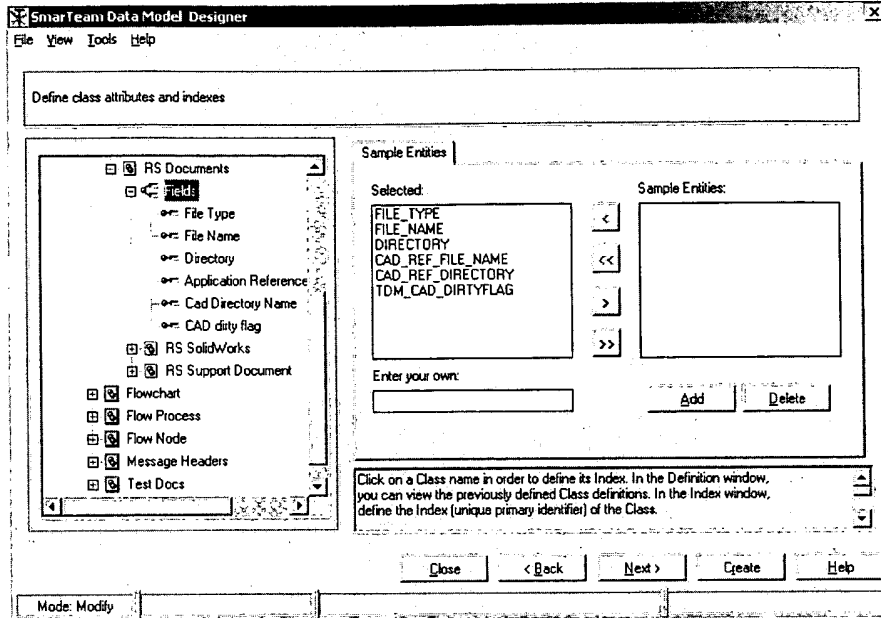


FIG. 26

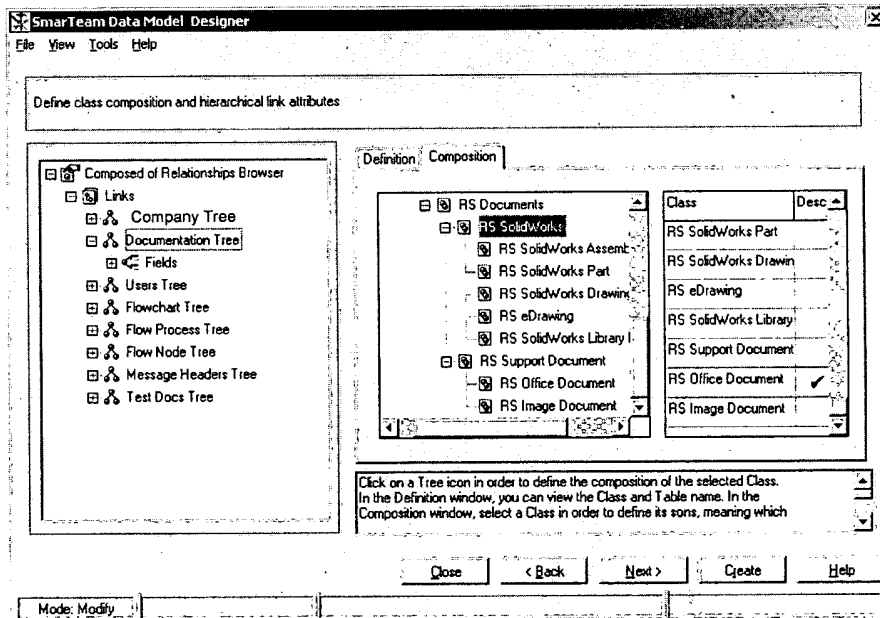


FIG. 27

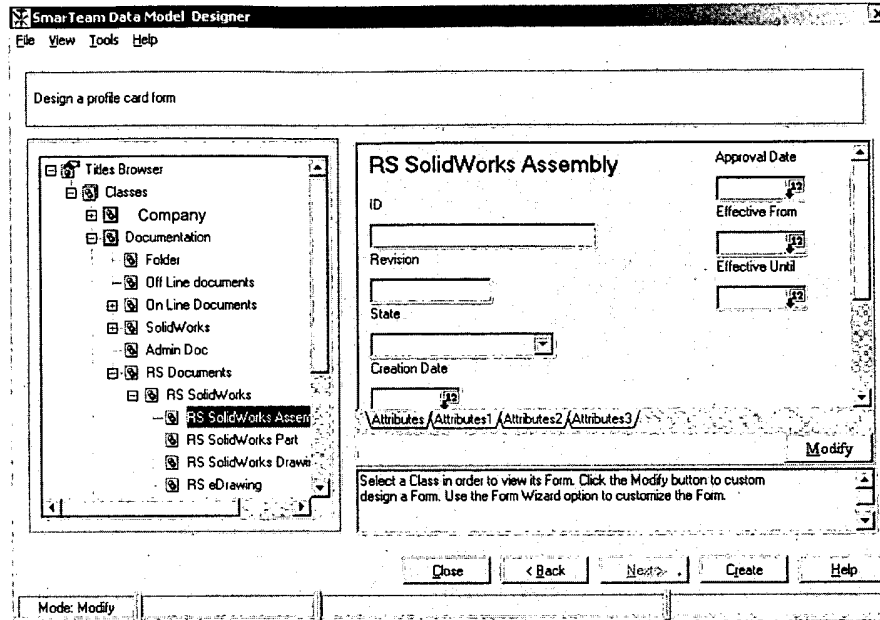


FIG. 28

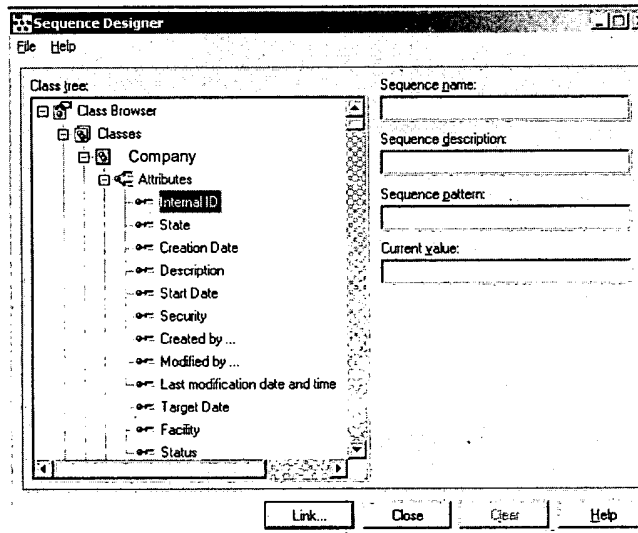


FIG. 29

Sequence Selection Dialog

Sequence Name	Description	Sequence Pattern	
DCN_Number	DCN Number	DCN-03-9999	Edit... New... Delete...
RuleStream Project		RS-99999999	
RuleStream Docum		RS-DOCS-999999	
REVISION_MASK		a.9.9	
Project	Proj_id	99999999	
Documentation	Documenta	999999999	
Cutomer	Customers	999999999	
Part_num	Part_num	999999999	
Company Class	Overall Counter	Company 9999	
Document Class		DOCS-99999999	
Flow Process		FLOW-999999	

Select Close Help

FIG. 30

Edit Sequences

Mask Info | Pattern Info

Sequence name: RuleStream Document

Sequence description:

Sequence pattern: RS-DOCS-99999999

Check Pattern

Sequence value: RS-DOCS-00000006

Set Increment Check Value

☐ Revision mode

Separators: Group:

☐ Add site prefix

OK Cancel Help

FIG. 31

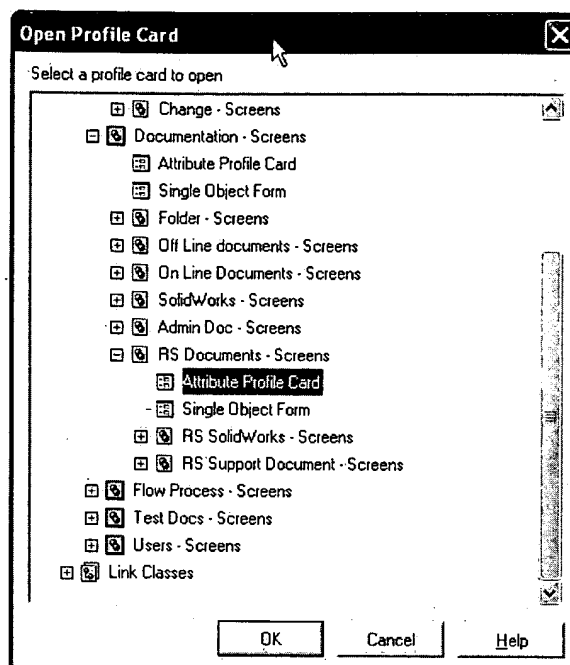


FIG. 32

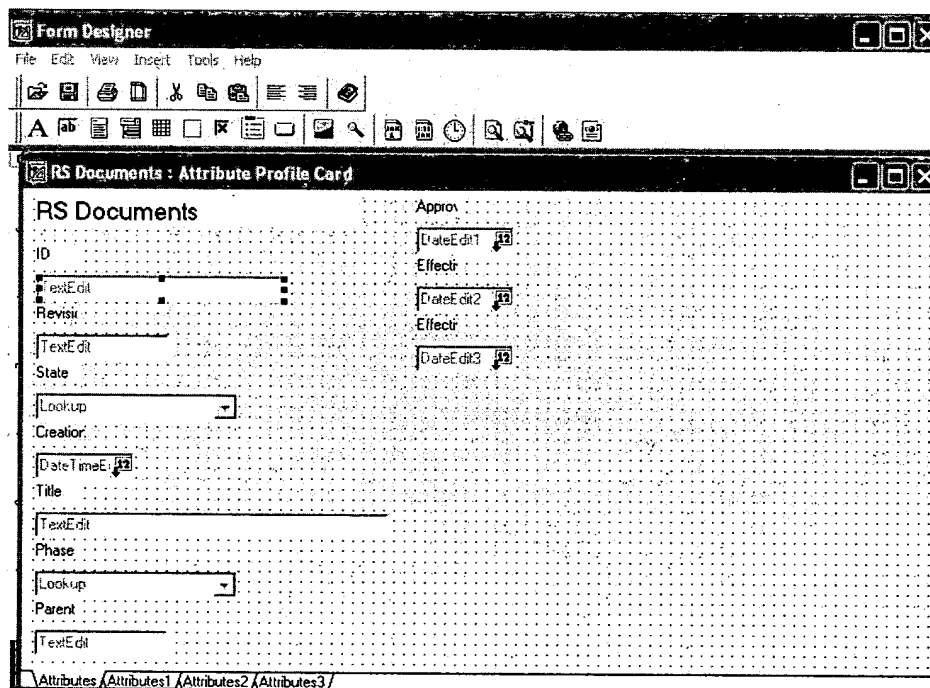


FIG. 33

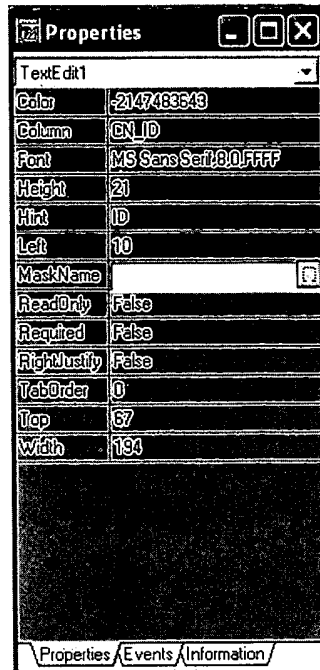


FIG. 34

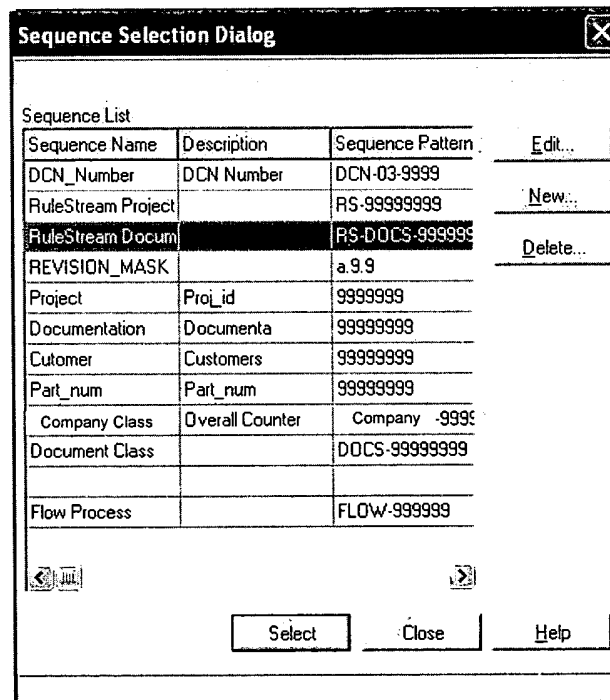


FIG. 35

Profile Card | Links | Notes | Revision | Viewer

SolidWorks Assembly

Part Number	1" TEMPLATE TEST ACTUATOR		
Revision	-0		
Title	1" TEST ACTUATOR ASSEMBLY		
Description	ACTUATOR WITH NO INTERNALS		
Facility	WILLOUGHBY #1 - 2101	End Connections	None
Activity Center	New Product Development		
State	New		
Phase	Preliminary Design		
Security	Medium		
Assembly Type	Full View	Add/Edit	None
Configuration	Default		

Attributes | Model Info | File Info | Revision Info | Gen Info

FIG. 36

Profile Card | Links | Notes | Revision | Viewer

SolidWorks Part

Part Number	ALLOY-1-31S4		
Revision	C		
Title	31 SERIES BODY		
Description			
Facility	HIGHLAND - 2201	End Connections	1/4" Company (2)
Activity Center	Drafting		
State	Released		
Phase	Production		
Security	Medium		
Part Type	Body	Add/Edit	None
Configuration	ALLOY-1-31S4		

Attributes | Model Info | File Info | Revision Info | Gen Info

FIG. 37

Profile Card		Links	Notes	Revision	Viewer
SolidWorks Drawing					
Part Number	3-31R				
Revision	B				
Title	31 SERIES STEM				
Description					
Facility	HIGHLAND - 2201	End Connections			
Activity Center	Drafting	None			
State	Released	<div>Add/Edit</div> <div>None</div>			
Phase	Production				
Security	Medium				
Drawing Type	Manufacturing				
<div>Attributes</div> <div>Model Info</div> <div>File Info</div> <div>Revision Info</div> <div>Gen Info</div>					

FIG. 38

Company Document	
Title	
Description	
Revision	
Facility	
Activity Center	
Document Type	
State	
Security	
<div>Attributes</div> <div>Attributes1</div> <div>Attributes2</div>	

FIG. 39

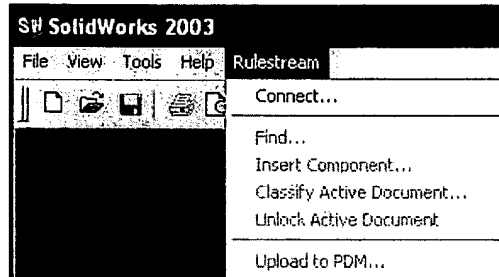


FIG. 40

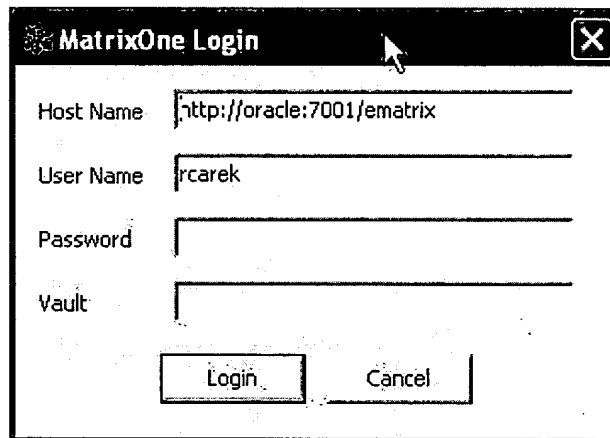


FIG. 41

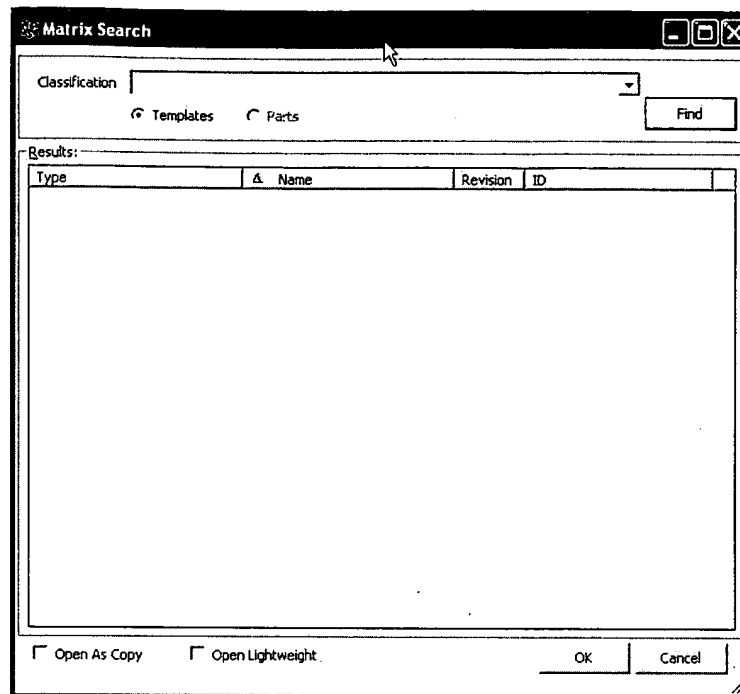


FIG. 42

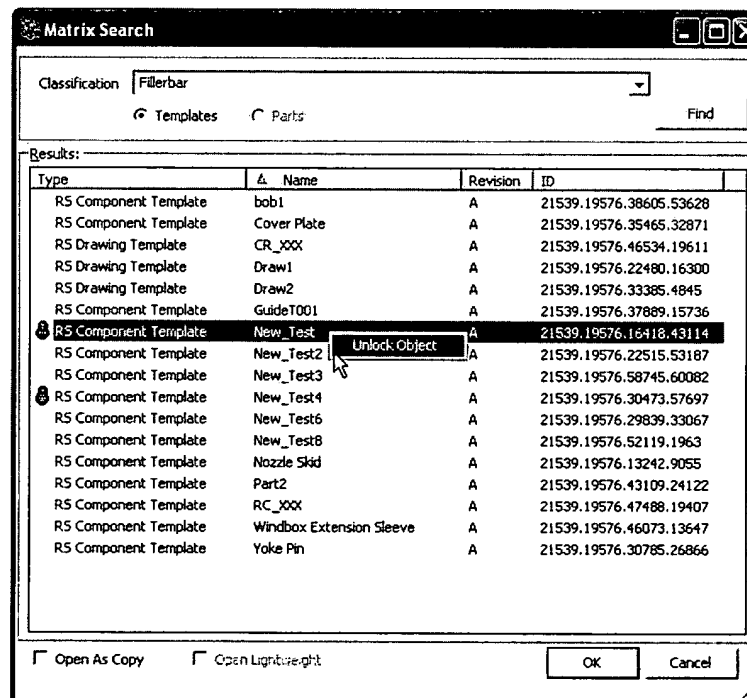


FIG. 43

Classify Active Document - part_xx.SLDPRT

Classification

☒ Relate This Document to a Part Object

Attributes

Attribute	Default Value	Research

Research Relationships

Relationship	Type

FIG. 44

Classify Active Document - part_xx.SLDPRT

Classification

☒ Relate This Document to a Part Object

Attributes

Attribute	Default Value	Research
Application		<input checked="" type="checkbox"/>
Application		<input checked="" type="checkbox"/>
Area		<input checked="" type="checkbox"/>
Center To Center		<input checked="" type="checkbox"/>
Class Type		<input checked="" type="checkbox"/>
Commodity Code	1234	<input checked="" type="checkbox"/>
Customs Harmonized Code	CHCF1234	<input checked="" type="checkbox"/>
Diameter - Outside Tube		<input checked="" type="checkbox"/>
Die	NO	<input checked="" type="checkbox"/>
Die Number		<input checked="" type="checkbox"/>
Drawing Template		<input checked="" type="checkbox"/>
E Text		<input checked="" type="checkbox"/>
Gauge		<input checked="" type="checkbox"/>
Item Type		<input checked="" type="checkbox"/>
Item Type		<input checked="" type="checkbox"/>
Length		<input checked="" type="checkbox"/>
Length		<input checked="" type="checkbox"/>

Research Relationships

Relationship	Type

FIG. 45

Classify Active Document - New_Test.SLDPRT

Classification
Fillerbar

☒ Relate This Document to a Part Object

Attributes

Attribute	Default Value	Research
Application		<input checked="" type="checkbox"/>
Center To Center		<input type="checkbox"/>
Class Type	Single	<input checked="" type="checkbox"/>
Commodity Code	1234	<input checked="" type="checkbox"/>
Customs Harmonized Code	Fillerbar Customs Harmonized Code	<input checked="" type="checkbox"/>
Diameter - Outside Tube		<input type="checkbox"/>
Die		<input type="checkbox"/>
Die Number		<input type="checkbox"/>
Item Type	Commercial Assembly	<input checked="" type="checkbox"/>
Length	Commercial Assembly	<input checked="" type="checkbox"/>
Material Code	Commercial Piece Part	<input checked="" type="checkbox"/>
Number Of Tubes	Fabricated Assembly	<input type="checkbox"/>
Thickness	Fabricated Piece Part	<input type="checkbox"/>
Thickness - Gauge	Cast	<input type="checkbox"/>
Tool Location	Raw Material	<input type="checkbox"/>
Tool Number		<input type="checkbox"/>

Research Relationships

Relationship	Type
EBOM	Actuator

Classify Cancel

FIG. 46

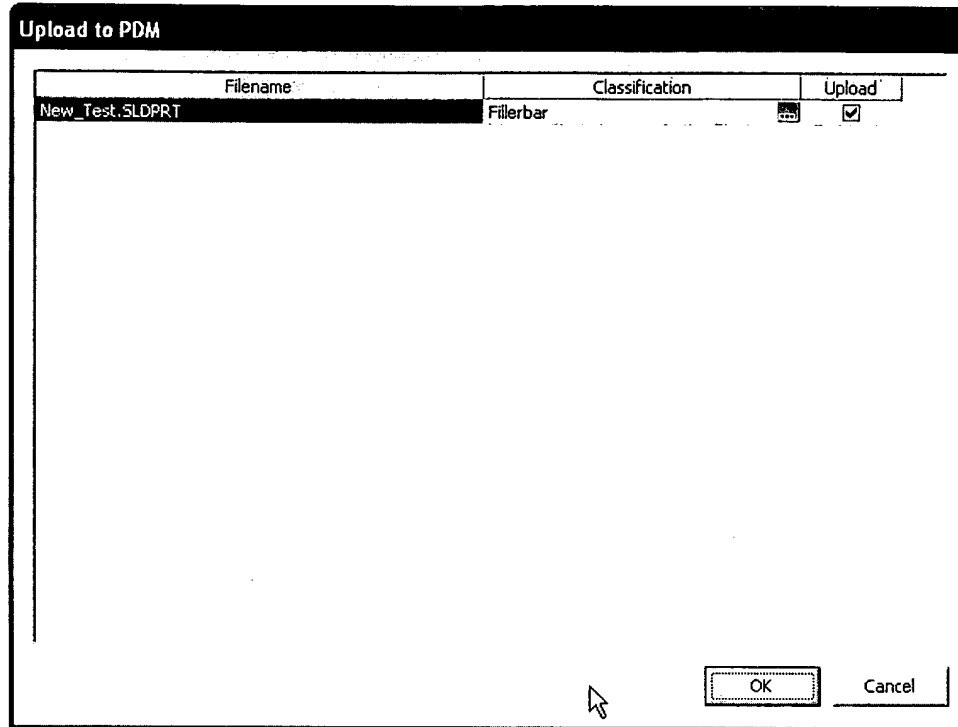


FIG. 47

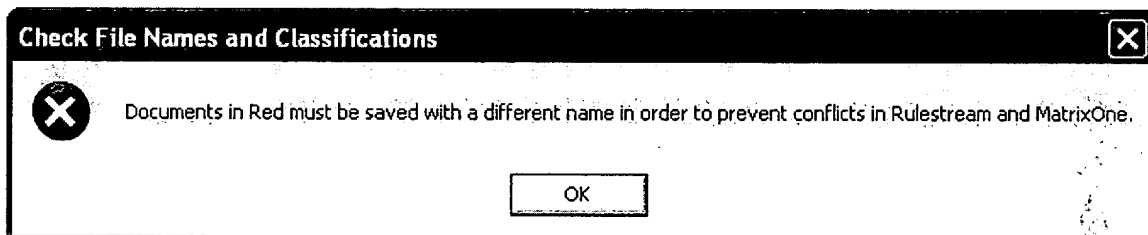


FIG. 48

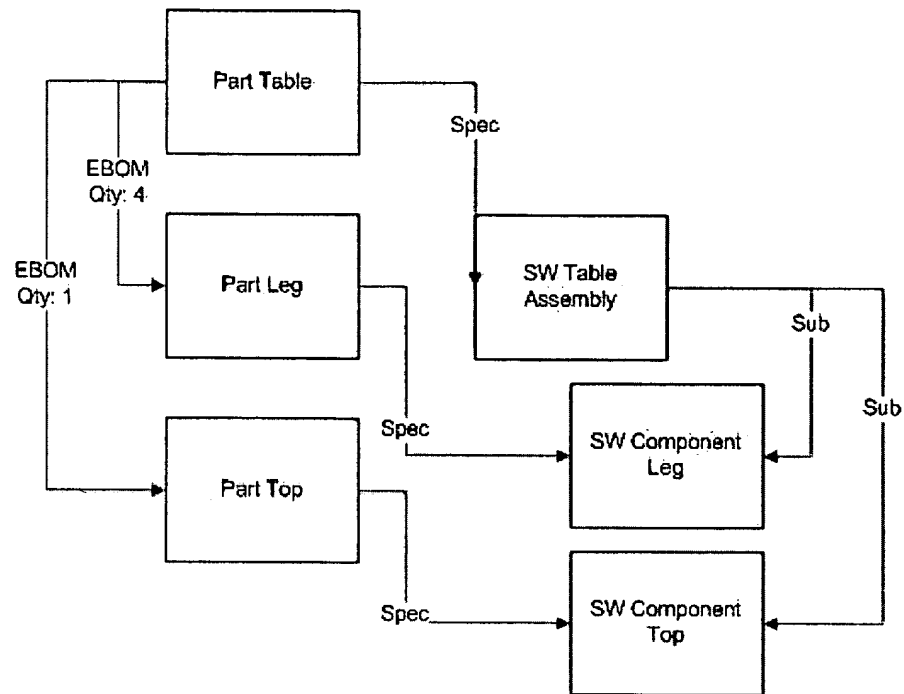


FIG. 49

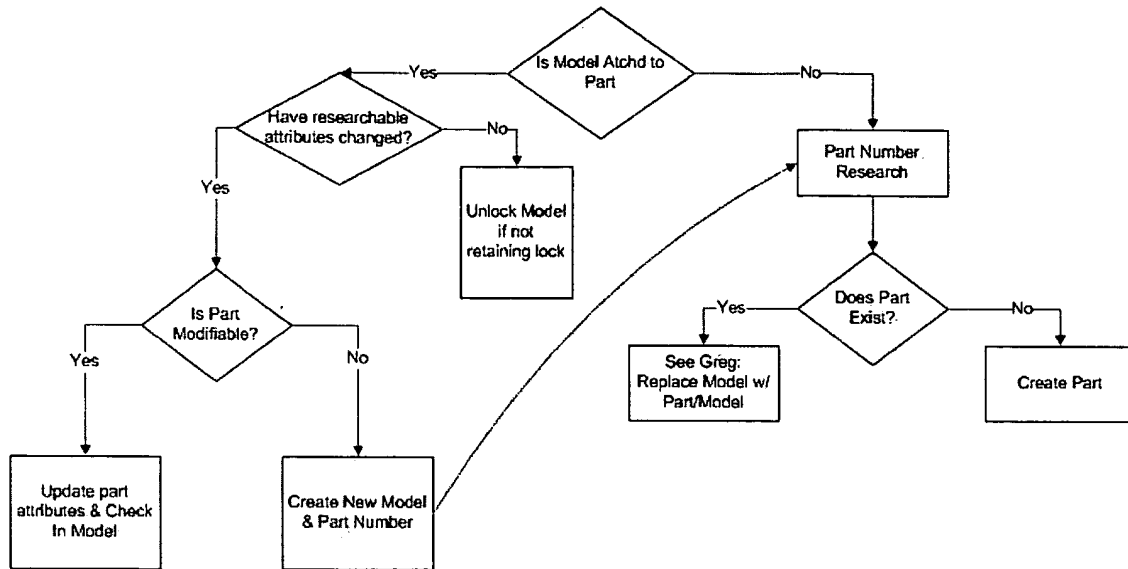


FIG. 50

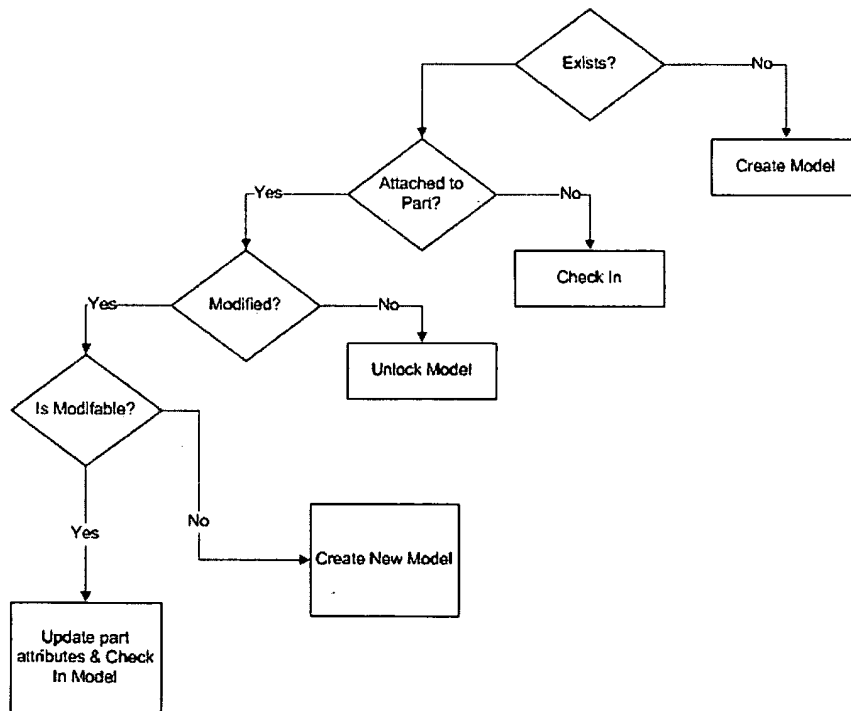


FIG. 51